



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	§	Group Art Unit:	1712
Lirio Quintero	§		
	§		
Serial No.: 10/023,273	§		
	§	Examiner:	
Filed: December 14, 2001	§		
	§		
For: Surfactant-Polymer Composition	§		
for Substantially Solid-Free Water	§	Atty. Docket: 154-26969-US	
Based Drilling, Drill-in and	§		
Completion Fluids	§		

~~MARKED UP CLAIMS FILED WITH~~
SECOND PRELIMINARY AMENDMENT

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MAY 27 2003

GROUP 1700

1 196. (Amended) A water-based drilling fluid comprising:
2 an aqueous base fluid;
3 a quantity of water soluble polymer; and,
4 an amount of surfactant in association with said water soluble polymer;
5 wherein said quantity, said amount, and said association provide said water
6 soluble polymer with effective rheology and fluid loss control properties
7 comprising low shear rate viscosity.

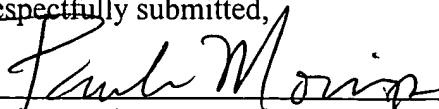
1 230. (Amended) A water-based drilling fluid comprising:
2 an aqueous base fluid;
3 a quantity of water soluble polymer;
4 an amount of surfactant in association with said water soluble polymer;

5 wherein said quantity, said amount, and said association provide said water- based
6 drilling fluid effective rheology and fluid loss control properties
7 comprising low shear rate viscosity; and
8 a concentration of non-toxic water emulsifiable material as an internal phase, said
9 surfactant being effective to emulsify said water emulsifiable material and
10 to produce emulsion droplets having an average diameter of about 30
11 microns or less.

1 272. (Amended) A water-based drilling fluid comprising:
2 an aqueous base fluid;
3 at least about 2 lb./bbl. water soluble polymer; and,
4 at least about 0.2 lb./bbl. of a surfactant in association with said water soluble
5 polymer;
6 wherein said water soluble polymer, said surfactant, and said association provide
7 said water- based drilling fluid with effective rheology and fluid loss
8 control properties comprising low shear rate viscosity.

1 329. (Amended) A water-based drilling fluid comprising:
2 an aqueous base fluid;
3 about 7.5 lb./bbl. water soluble polymer; and,
4 about 2 lb./bbl. of a surfactant in association with said water soluble polymer;
5 wherein said water soluble polymer, said surfactant, and said association provide
6 said water- based drilling fluid with effective rheology and fluid loss
7 control properties comprising low shear viscosity.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Paula Morris", written over a horizontal line.

Paula Morris

Reg. No. 31,516

Paula D. Morris & Associates, P.C.

10260 Westheimer, Suite 360

Houston, Texas 77042

(713)334-5151

FAX (713)334-5157

ATTORNEY FOR APPLICANT